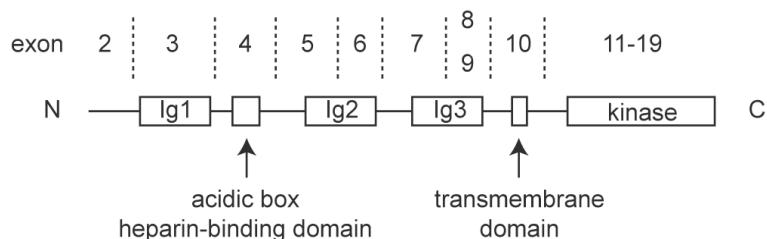


Supplemental Data

TISSUE-SPECIFIC EXPRESSION OF β KLOTHO AND FIBROBLAST GROWTH FACTOR RECEPTOR ISOFORMS DETERMINES METABOLIC ACTIVITY OF FGF19 AND FGF21

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FGFR1

Exon#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
b(S)	+	+	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	
c(L)	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	
c(S)	+	+	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	

FGFR2

Exon#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
c(L)	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	
c(M)	+	+	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	
c(S)	+	+	-	-	+	+	+	-	+	+	+	+	+	+	+	+	+	+	

FGFR3

Exon#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
c	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	

FGFR4

Exon#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Supplemental Figure 1. Splice variants of fibroblast growth factor receptors (FGFRs) used in this study. The FGFR1, FGFR2, and FGFR3 genes are composed of 19 exons (Givol, D., and Yayon, A. *Faseb J.* **6**, 3362-3369, 1992). Exon 3 encodes the first immunoglobulin (Ig)-like domain (Ig1) in the extracellular domain. Exons 8 and 9 alternatively encode the C-terminal half of the third Ig-like domain (Ig3). Exon 4 encodes the acid box and heparin-binding domain. Exclusion of exon 9 or exon 8 results in mRNA for "b" isoforms (b) or "c" isoforms (c), respectively. Inclusion of exon 3 and 4 encodes mRNA for "long" isoforms (L). Exclusion of exon 3 encodes mRNA for "middle" isoforms (M) in FGFR2 and for "short" isoforms (S) in FGFR1. Exclusion of both exon 3 and 4 mRNA encodes "short" isoforms (S) in FGFR2. The FGFR4 gene is composed of 18 exons (Kostrzewska, M., and Muller, U. *Mamm Genome*. **9**, 131-135, 1998) and no splice variant has been described.

Supplemental Table 1. Sequences of the siRNA oligonucleotides

siRNA	Sense (5'→3')	Anti-sense (5'→3')
βKlotho-1 (mouse/rat)	CAGUUUGCUCUGGACUGGGACCUCUA	UAGAGGUCCAGUCCAGAGCAAACUG
βKlotho-2 (mouse)	GCGGAAGACACAGACUGCCACCAUUU	AAAUGGUGCAGUCUGUGUCUCCCGC
βKlotho-3 (mouse/rat)	CAGAAGGGUUGGCUCUCCAUCACCU	AGGUGAUGGAGAGCCAACCCUUCUG
Control (random)	GCGCAGAGACAGUCACCACAAGUUU	AAACUUGUGGGUGACUGUCUCUGCGC

Supplemental Table 2. Sequences of the primers for the quantitative RT-PCR

Primer	Forward (5'→3')	Reverse (5'→3')
Rat Cyclophilin	CCCTGAAGGATGTGATCATTTG	GGCAAAGGGTTCTCCACTT
Rat CYP7A1	CCTTGAGAACGGGTTGATT	CAGGGAGTTGTGATGAAATGG
Rat SHP	GGAGCAGCCCTCGTCTCA	ACACTGTATGCAAACCGAGGAA
Rat FGFR1	TGGCACCTGAGGCATTGTT	AAGAGCACCCAAAAGACCAC
Rat FGFR2	ACCAACTGCACCAATGAAGTGT	TTAAACGTGGGCCTCTGTGA
Rat FGFR3	TGCCTGCTGACCCCAAGT	CCTGTCAAAGCAGCCTTCT
Rat FGFR4	CCGGCCAGACCAAAACC	TCAGGTCTGCCAAATCCTTGT
Mouse Cyclophilin	GGAGATGGCACAGGAGGAA	GCCC GTAGTGCTTCAGCTT
Mouse FGFR1	TGTTGACCGGATCTACACACA	CTCCCACAAGAGCACTCCAA
Mouse FGFR2	TCGCATTGGAGGCTATAAGG	CGGGACCACACTTCCATAA
Mouse FGFR3	GCATCCTCACTGTGACATCAAC	CCTGGCGAGTACTGCTCAA
Mouse FGFR4	CGCCAGCCTGTCACTATACAAA	CCAGAGGACCTCGACTCCAA